SEQUENCE LISTING

<110> Co, Man Sung

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Vasquez, Maximiliano
       Carreno, Beatriz
       Celniker, Abbie Cheryl
Collins, Mary
       Goldman, Samuel
       Gray, Gary S.
       Knight, Andrea
       O'Hara, Denise
       Rup, Bonita
       Veldman, Geertruida M.
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Thr Asp Tyr Ala Ile Gln Trp Val Lys Gln Ser His Ala Lys Ser Leu 50 60

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Thr Ala Tyr Met Glu Leu Ala Arg Leu Thr Ser Glu Asp Ser Ala Ile $100 \hspace{1cm} 105 \hspace{1cm} 110$

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Glu Ser	Gly	val	Pro 85	Asp	Arg	Phe	Thr	G]у 90	Ser	Gly	Ser	Gly	Thr 95	Asp	
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                                                                         51
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                                                                                51
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Ala
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        17
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Val His Ser Gln Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Arg
                                                                                    96
cct ggg gaa tca gtg aag att tcc tgc aag ggt tcc ggc tac aca ttc
Pro Gly Glu Ser Val Lys Ile Ser Cys Lys Gly Ser Gly Tyr Thr Phe
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                                                                                    192
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Thr Ala Tyr Met Glu Leu Ala Arg Leu Thr Ser Glu Asp Ser Ala Ile
                                                                              336
              100
                                                                              384
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Gln Lys Phe Lys Gly Lys Ala Thr Met Thr Val Asp Lys Ser Ser Ser 90 95
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                                                                                            96
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20 25 30
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Val Ser Ala Gly Glu Lys Val Thr Met Ser Cys Lys Ser Ser Gln Ser
                                                                                            144
                                        40
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                                                                                             192
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Lys Pro Gly Gln Ser Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg
65 70 75 80
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                                             105
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48

96

144

192

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wys00401_Sequence_Listing.txt
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Pro Gly Ser Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe 35 40 45
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 ggc acc tgt ggg gac att gtg ctg aca cag tct cca gat tcc ctg gct
                                                                         96
                                           Page 14
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wYS00401_Sequence_Listing.txt
Gly Thr Cys Gly Asp Ile Val Leu Thr Gln Ser Pro Asp Ser Leu Ala 20 25 30
                                                                           144
gta agc tta gga gag agg gcc act att agc tgc aaa tcc agt cag agt
Val Ser Leu Gly Glu Arg Ala Thr Ile Ser Cys Lys Ser Ser Gln Ser
ctg ctc aac agt aga acc cga gag aac tac ttg gct tgg tac cag cag
Leu Leu Asn Ser Arg Thr Arg Glu Asn Tyr Leu Ala Trp Tyr Gln Gln
                                                                           192
                                                                           240
aaa cca ggg cag cct cct aaa ctg ctg atc tac tgg gca tcc act agg
Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg
65 70 75 80
gaa tct ggg gtc cct gat cgc ttc agt ggc agt gga tct ggg aca gat
Glu Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp
                                                                           288
ttc act ctc acc atc agc agt ctg cag gct gaa gac gtg gca gtt tat
                                                                           336
Phe Thr Leu Thr Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr
                                     105
              100
                                                                           384
tac tgc acg caa tct tat aat ctt tac acg ttc gga cag ggg acc aag
Tyr Cys Thr Gln Ser Tyr Asn Leu Tyr Thr Phe Gly Gln Gly Thr Lys
         115
                                                                           396
gtg gaa ata aaa
Val Glu Ile Lys
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<213> Artificial Sequence
<220>
<223> Humanized murine anti-human B7-2 light chain
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Gly Thr Cys Gly Asp Ile Val Leu Thr Gln Ser Pro Asp Ser Leu Ala
20 25 30
Val Ser Leu Gly Glu Arg Ala Thr Ile Ser Cys Lys Ser Ser Gln Ser
Leu Leu Asn Ser Arg Thr Arg Glu Asn Tyr Leu Ala Trp Tyr Gln Gln 50 60
Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg
65 70 75 80
Glu Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Thr Asp
Phe Thr Leu Thr Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr
              100
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                                            Page 15
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Val Glu Ile Lys
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<212> DNA
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Asp Tyr Ala Ile Gln
                                                                                  15
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<211> 5
<212> PRT
<213> Artificial Sequence
<223> CDR1 of humanized murine anti-human B7-2 heavy chain
<400> 30
Asp Tyr Ala Ile Gln
<210> 31
<211> 51
<212> DNA
<213> Artificial Sequence
<223> CDR2 of humanized murine anti-human B7-2 heavy chain
<220>
<221> CDS
<222> (1)..(51)
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                                                                                   51
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Gly
<210> 32
<211> 17
<212> PRT
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Gly
<210> 33
<211> 21
<212> DNA
<213> Artificial Sequence
<223> CDR3 of humanized murine anti-human B7-2 heavy chain
<220>
<221> CDS
<222> (1)..(21)
<400> 33
                                                                        21
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Ăla Āla Trp Tyr Met Asp Tyr
<210> 34
<211> 7
<212> PRT
<213> Artificial Sequence
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<400> 34
Ala Ala Trp Tyr Met Asp Tyr
<210> 35
<211> 51
<212> DNA
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<221> CDS
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1 10 15
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gct
Āla
<210> 36
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Page 17

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WYS00401_Sequence_Listing.txt
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Ala
<210> 37
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Trp Ala Ser Thr Arg Glu Ser
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<211> 7
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<400> 38
Trp Ala Ser Thr Arg Glu Ser
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Thr Gln Ser Tyr Asn Leu Tyr Thr
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<210> 41
<211> 1960
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tgg gta tct ggc acc tgt ggg gac att gtg ctg aca cag tct cca gat
Trp Val Ser Gly Thr Cys Gly Asp Ile Val Leu Thr Gln Ser Pro Asp
15 20 25
                                                                               98
tcc ctg gct gta agc tta gga gag agg gcc act att agc tgc aaa tcc
                                                                               146
Ser Leu Ăla Val Ser Leu Ğİy Ğlü Arg Ăla Thr Ile Ser Cys Lys Ser
 30
agt cag agt ctg ctc aac agt aga acc cga gag aac tac ttg gct tgg
                                                                               194
ser Glň ser Leu Leu Asn ser Arg Thr Arg Glu Asn Tyr Leu Ála Trp
tac cag cag aaa cca ggg cag cct cct aaa ctg ctg atc tac tgg gca
Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr Trp Ala
                                                                               242
                                       70
tcc act agg gaa tct ggg gtc cct gat cgc ttc agt ggc agt gga tct
Ser Thr Arg Glu Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser
                                                                               290
                                   85
ggg aca gat ttc act ctc acc atc agc agt ctg cag gct gaa gac gtg
                                                                               338
    Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Ala Glu Asp Val
                             100
                                                                               386
gca gtt tat tac tgc agc caa tct tat aat ctt tac acg ttc gga cag
Ala Val Tyr Tyr Cys Ser Gln Ser Tyr Asn Leu Tyr Thr Phe Gly Gln
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120

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438

115

ggg acc aag gtg gaa ata aaa c gtaagtagtc ttctcaactc tagaaattct

WYS00401_Sequence_Listing.txt
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130

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gtt gtg tgc ctg ctg aat aac ttc tat ccc aga gag gcc aaa gta cag Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala Lys Val Gln 160 165 170	886
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aca gag cag gac agc aag gac agc acc tac agc ctc agc acc ctg Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser Ser Thr Leu 190 195 200	982
acg ctg agc aaa gca gac tac gag aaa cac aaa gtc tac gcc tgc gaa Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr Ala Cys Glu 205 210 215 220	1030
gtc acc cat cag ggc ctg agc tcg ccc gtc aca aag agc ttc aac agg Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser Phe Asn Arg 225 230 235	1078
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Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg 65 70 75 80

Glu Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp 85 90 95

Phe Thr Leu Thr Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr 100 105 110

Tyr Cys Ser Gln Ser Tyr Asn Leu Tyr Thr Phe Gly Gln Gly Thr Lys 115 120 125

Val Glu Ile Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro 130 135 140

Pro Ser Asp Glu Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu 145 150 155 160

Leu Asn Asn Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp 165 170 175

Asn Ala Leu Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp 180 185 190

Ser Lys Asp Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys 195 200 205

Ala Asp Tyr Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln 210 215 220 Page 21

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Gly Leu Ser Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys 235
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Ala Thr Gly Val His Ser Gln Val Gln Leu Val Gln Ser Gly Ala Glu
                                                                                                   98
gtg aag aag cct ggg agc tca gtg aag gtg tcc tgc aaa gct tcc ggc
Val Lys Lys Pro Gly Ser Ser Val Lys Val Ser Cys Lys Ala Ser Gly
                                                                                                   146
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tac aca ttc act gat tat gct ata cag tgg gtg aga cag gct cct gga
Tyr Thr Phe Thr Asp Tyr Ala Ile Gln Trp Val Arg Gln Ala Pro Gly
                                                                                                   194
                                                                                                   242
cag ggc ctc gag tgg att gga gtt att aat att tac tat gat aat aca
Gln Gly Leu Glu Trp Ile Gly Val Ile Asn Ile Tyr Tyr Asp Asn Thr
                                                                                                   290
aac tac aac cag aag ttt aag ggc aag gcc aca atg act gta gac aag
Asn Tyr Asn Gln Lys Phe Lys Gly Lys Ala Thr Met Thr Val Asp Lys
tcg acg agc aca gcc tat atg gaa ctt agt tct ttg aga tct gag gat
Ser Thr Ser Thr Ala Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp
                                                                                                   338
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ggt Gly	caa Gln	ggt Gly	acc Thr	ctt Leu 130	gtc Val	acc Thr	gtc Val	tcc Ser	tca Ser 135	g gt	gagt	cctt	aa	aacct	cta	437
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	cca Pro 245	g g	taag	ccag	c cc	aggc	ctcg	ccc	tcca	gct	caag	gcgg	ga c	aggt	gccct	1426
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gag cag ttc Glu Gln Phe 310	aac agc Asn Ser	acg tto Thr Pho	cgt Arg 315	gtg Val	gtc Val	agc Ser	gtc Val	ctc Leu 320	acc Thr	gtt Val	gtg Val	1727
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Thr Asp Tyr Ala Ile Gln Trp Val Arg Gln Ala Pro Gly Gln Gly Leu
50 55 60
Glu Trp Ile Gly Val Ile Asn Ile Tyr Tyr Asp Asn Thr Asn Tyr Asn 65 70 75 80
Gln Lys Phe Lys Gly Lys Ala Thr Met Thr Val Asp Lys Ser Thr Ser
85 90 95
Thr Ala Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val
100 105 110
Tyr Tyr Cys Ala Arg Ala Ala Trp Tyr Met Asp Tyr Trp Gly Gln Gly
115 120 125
Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe
130 135 140
Pro Leu Ala Pro Cys Ser Arg Ser Thr Ser Glu Ser Thr Ala Ala Leu
145 150 155 160
Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp
165 170 175
Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu
180 185 190
Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser
195 200 205
Ser Asn Phe Gly Thr Gln Thr Tyr Thr Cys Asn Val Asp His Lys Pro
210 215 220
Ser Asn Thr Lys Val Asp Lys Thr Val Glu Arg Lys Cys Cys Val Glu
225 230 235 240
Cys Pro Pro Cys Pro Ala Pro Pro Ala Ala Ala Pro Ser Val Phe Leu
245 250 255
Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu
260 265 270
Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Gln 275 280 285
                                              Page 25
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Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys 290 295 300	
Pro Arg Glu Glu Gln Phe Asn Ser Thr Phe Arg Val Val Ser Val Leu 305 310 315 320	
Thr Val Val His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys 325 330 335	
Val Ser Asn Lys Gly Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys 340 345 350	
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Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln 385 400	
Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Met Leu Asp Ser Asp Gly 405 410 415	
Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln 425 430	
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Tyr Ala Ala Ser Thr Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly 50 60	
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Ala Arg